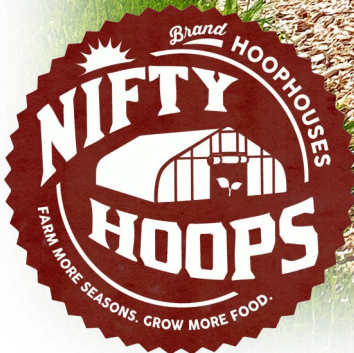




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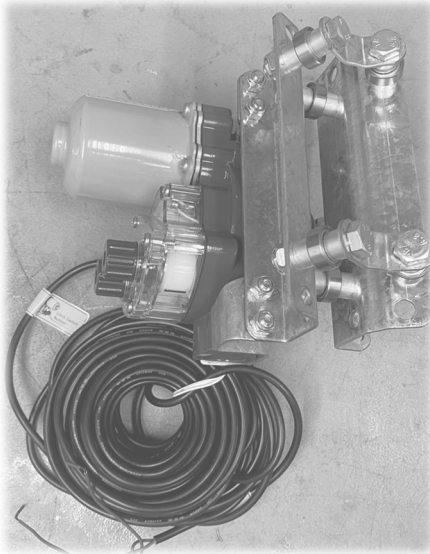
MOTORIZED AND THERMOSTATICALLY CONTROLLED SIDE CURTAINS KIT



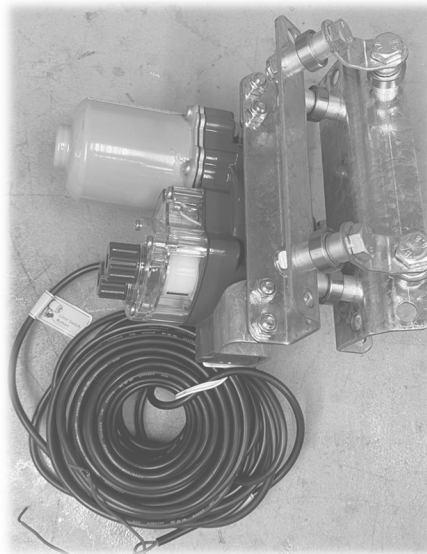


Motorized & Thermostatically-Controlled Side Curtains Kit

In the box:



Curtain Motor



Curtain Motor



Thermostat



Thermostat box cover

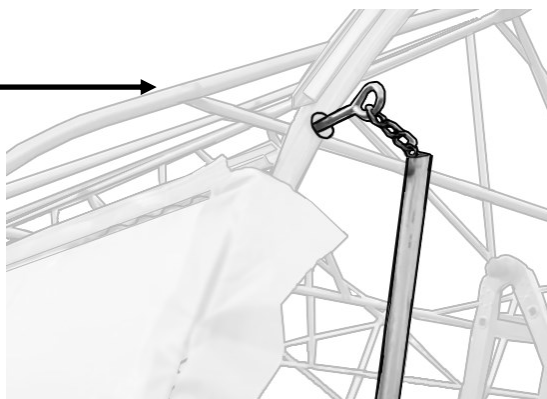


Zip ties



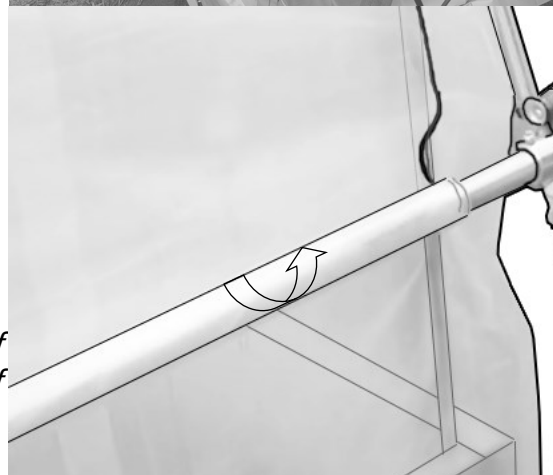
Motorized & Thermostatically-Controlled Side Curtains Kit

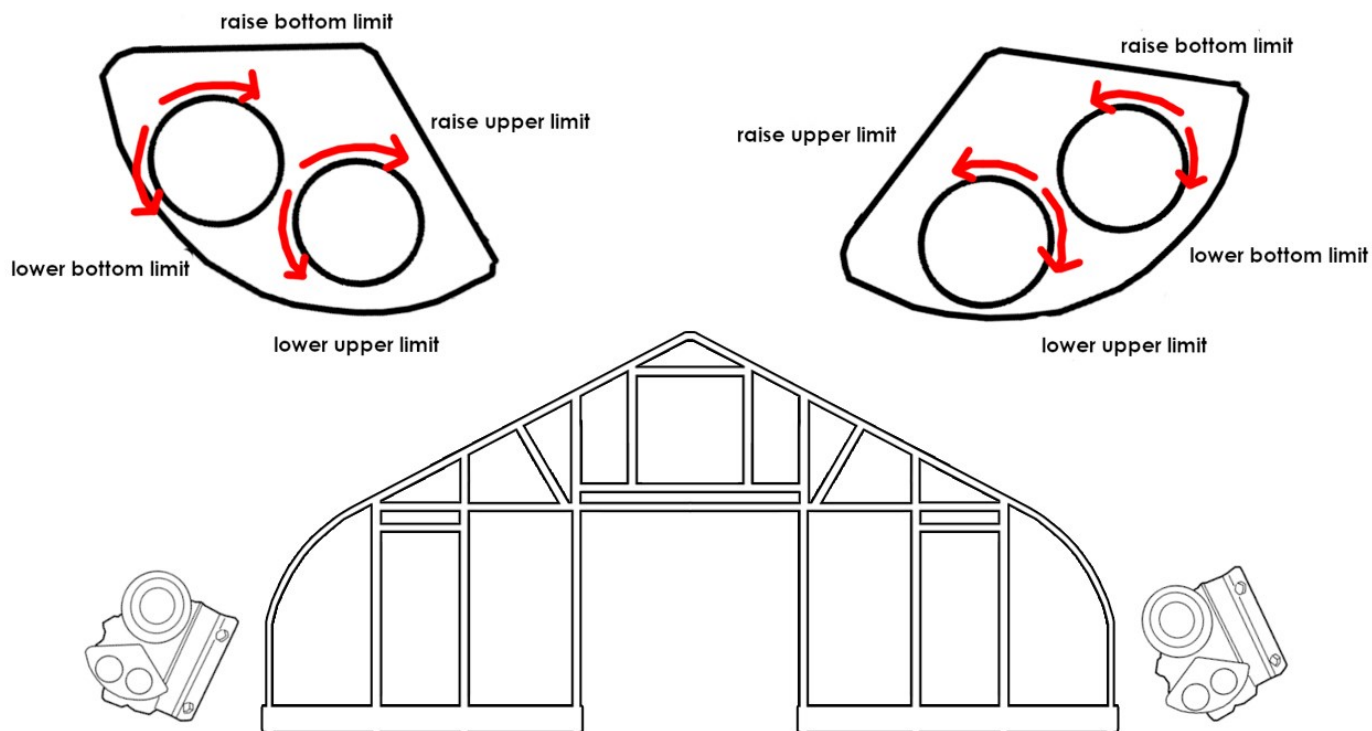
1. Attach 1.315" or 1-3/8" Ø guide pipe to endwall bow. See detail for Nifty Hoops guide pipe design 
2. Insert guide pipe into roller wheels on side curtain motor. **Be sure adjusting knobs on motor are on bottom**
3. Remove bolts on motor adapter. Insert roll-bar into adapter
4. With a permanent marker, mark location of adapter holes on inserted roll-bar. Remove roll-bar from adapter
5. Drill straight through roll-bar at marks with 5/16" bit, reaming out hole slightly to allow for easier bolt insertion
6. Reinsert roll-bar into motor adapter. Attach motor to roll-bar through drilled holes with included bolts. If bolts will not screw into roll-bar, further widen drilled holes
7. Adjust lengthwise position of roll-bar on curtain **so guide pipe hangs parallel to endwall bow** when viewing it from the side (**roll-bar will extend about 2" past endwall base-board on a Nifty hoophouse**)
8. Secure roll-bar to side curtain with roll-bar clips or another method
9. Insert motor wires into positive and negative terminals of drill battery or attach to included power supply so that curtain rolls **away from the structure** until it is about 6" above eye bolts (or bottom of wind lashing attachment system). *If motor begins to roll up toward structure, reverse polarity of wires on power source*



Why roll curtains *away* from the house?

Rolling curtains away from the structure will prevent curtain from chafing against ground-posts and lead to significantly longer lifespan of curtain material





10. Turn outer adjusting knob (lower limit) *toward the center of the structure* until gear pin touches the limit switch (you will hear a “click”). **See diagram above for clarification of limit switch controls**
11. Reverse polarity of wires attached to power source. *Motor will not operate as limit switch is tripped*
12. Rotate outer adjusting knob *away from the center of the structure* by a tiny amount — just until curtain begins to roll down. Make small adjustments until lower limit is set **just above wind rope eye bolts**. Once lower limit is set, tighten set screw in center of knob, taking care not to turn knob out of adjustment
13. Reverse polarity of wires to power source. Curtain will begin to roll up
14. When curtain arrives at the desired upper limit of its operation, rotate inner adjusting knob *away from the center of the structure* until gear pin touches the limit switch. Tighten set screw in center of knob
15. Repeat steps 1-14 for curtain motor on other side of hoophouse

NOTE: Do not set upper limit too close to hipboard. The side curtain can accumulate debris or algae, causing it to roll up higher than when originally installed, potentially damaging the roll bar or the hipboard. 2/3 to 3/4 of the full height is generally recommended

NOTE: You will likely never need to adjust your lower limit once initially set, although you may choose to adjust your upper limit switches seasonally



16. Insert motor wire through tape-reinforced holes in end-wall material, tying a knot in wire on both sides of poly to prevent wire pulling through, **leaving enough wire outside structure for motor to reach bottom of guide pipe**
17. Mount thermostat junction box in the location you wish with included tek screw or other fastener of your choosing
18. Route motor wires to thermostat junction box through conduit, or zip-tie to structure frame. **Refer to next page for electrical layout diagram.** You may choose to mark the right side motor wire to easily identify in the junction box
19. Wirenut included length of wire ("power wire") to power supply (**red to red**, black to black). Route power wire to thermostat junction box, trim and strip ends
20. Wirenut both stripped ends of power wire to thermostat wires labelled "**PS**" or "**IN**" (**red to red**, **black to black**)
21. Attach **blue** wire from left-side motor (**left when facing endwall from outside**) and **brown** wire from right-side motor to **red** thermostat wire labelled "**OUT**" or "**LOUVER**". Secure with wire nut
22. Attach **brown** wire from left-side motor and **blue** wire from right-side motor to **black** thermostat wire labelled "**OUT**" or "**LOUVER**". Secure with wire nut
23. Plug in power supply unit to AC power source
24. Confirm proper curtain operation:
 - When hoophouse temp is *below temp set on the thermostat*, curtains will roll down to close
 - When hoophouse temp is *above temp set on the thermostat*, curtains will roll up to vent
 - When thermostat is turned to a temp *higher than that inside structure*, curtains will roll down
 - When thermostat is turned to a temp *lower than that inside structure*, curtains will roll up
25. If curtains are turning the wrong direction, recheck instructions in steps 20-21



Note: Motors turn in opposite directions, thus are wired with opposite polarity

A note on curtain roll-bar maintenance:

Over time, roll-up curtains may accumulate debris. This can lead to the curtain rolling up higher at some points than others. Periodically inspect curtain, making adjustments to limit switches to prevent curtain from rolling up too high and damaging the motor, curtain or hipboard. Also, inspect wind ropes often and replace damaged sections as necessary

Wiring Diagram

